

CLAIMS:

1. A method of using a diesel reforming strategy,
comprising:
supplying diesel fuel to a fractional distillation device;
fractionally distilling said diesel fuel to produce a light fuel
5 stream and a heavy fuel stream; and
reforming said light fuel stream in a reformer to produce a
reformate.
2. The method of Claim 1, further comprising burning said
heavy fuel stream in a burner to generate thermal energy.
3. The method of Claim 2, wherein said reformer is a steam
reformer.
4. A diesel fuel reforming system, comprising:
a fractional distillation device in fluid communication with a
supply of diesel fuel; and
a reformer in fluid communication with said fractional
5 distillation device.
5. The diesel fuel reforming system of Claim 4, further
comprising a burner in fluid communication with said fractional distillation
device.
6. The diesel fuel reforming system of Claim 4, wherein
said reformer is a steam reformer.

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disposing a reformer in fluid communication with a fuel cell

disposing said fractional distillation device in fluid contact with a supply of fuel.

8. The method of Claim 7, further comprising disposing a communication with said fractional distillation device.

9. A method of using a fuel cell system, comprising:
supplying diesel fuel to a fractional distillation device;
fractionally distilling said diesel fuel to produce a light fuel
heavy fuel stream;
reforming said light fuel stream in a reformer to produce a
utilizing said reformat in a fuel cell stack to produce electricity.

10. The method of Claim 9, further comprising burning said steam in a burner to generate thermal energy.

11. The method of Claim 9, wherein said reformer is a steam

12. A fuel cell system for diesel fuel reforming, comprising:
a means for fractionally distilling a supply of diesel fuel to
produce a light fuel stream and a heavy fuel stream;
a means for reforming said light fuel stream to produce a
5 reformat, said means for reforming disposed in fluid communication with said
means for fractionally distilling; and
a means for producing electricity from said reformat, said
means for producing electricity disposed in fluid communication with said
means for reforming.
13. The system of Claim 12, further comprising a means for
burning said heavy fuel stream disposed in fluid communication with said
fractional distillation device.
14. The system of Claim 13, wherein said means for burning
produces thermal energy.
15. The system of Claim 12, wherein said means for
reforming is a steam reformer.
16. The system of Claim 12, wherein said means for
producing electricity is a fuel cell.
17. The system of Claim 16, wherein said means for
producing electricity is a solid oxide fuel cell.